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LIFEWATEROIL

The **LIFE20 ENV/BG/001042 LIFE WATEROIL** Project started in the beginning of 2022. The Project is co-financed by the European Union under the LIFE program as an initiative improving the quality of the environment.

The Project members are:

Coordinating beneficiary: **LUKOIL Neftohim Burgas JSC**

Associated beneficiaries: **Eurovix SPA, Italy, Burgas Municipality, Faculty of Technical Sciences of Prof. d-r Asen Zlatarov University.**



LIFE WATEROIL Project will implement an **innovative technology for treatment of spent process waters** using specially developed bio-enhancers. Thus, having been treated in the refinery's revamped water treatment facilities, part of the waters will be reused. This will reduce fresh water consumption from Mandra lake by about 420 thousand m³ per year. The Project

implementation will improve the refinery's energy efficiency, the greenhouse gases emissions will be reduced by 1000 tons per year, and the emissions of pollutants into wastewaters will drop by around 75 tons per year. An introduction of a best practice for wastewater treatment as well as a new methodology of unpleasant odour sources detection using the effective olfactometry standard is planned based on Project results.

LIFE WATEROIL was first presented to the public at an online Round Table on January 26th 2022. Some months later, on May 11th 2022, the Project partners presented the Project's main ideas and activities to representatives of the public and the students of Prof. d-r Asen Zlatarov University in Burgas



The focus of the forum held on June 13th 2022 was the **potential transfer of Project technologies and best practices** to other branches of economy. Representatives of the business and academic circles, governmental and local authorities, environmentalists and journalists took part in the discussion.

LIFE WATEROIL Project solutions can find application in a number of industries, generating sulphide-containing wastewater streams because of their production process, such as cellulose production, ferrous and non-ferrous metallurgy, city and municipal wastewater treatment facilities.



The Project implementation effect will be measured through a **Water and Air Quality and Biodiversity Monitoring Program**. The air quality monitoring will be performed on two “loops”: an internal 4-km loop on LUKOIL Neftohim Burgas site along the pipeline transporting the bioenhancers-treated wastewater, and an external one including the adjacent residential areas (Dolno Ezerovo, Kameno, Bratovo, parts of Burgas). The monitoring along the internal loop will be done by an accredited specialised laboratory, using methods of measuring emissions to air. He monitoring of the external loop will be performed by the Mobile station of Burgas Municipality. It will be situated on key locations around the refinery following a schedule. Biodiversity specialists will monitor the environmental indices of organisms, which are the basis of the food chains of Mandra lake eco-system: zoo and phytoplankton, macrozoobentos and fishes.

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